

#### ABSTRACT OF THE DISCLOSURE

A high frequency line-waveguide converter comprises a high frequency line including a dielectric layer, a line conductor disposed on an upper surface of the dielectric layer, and a ground conductor layer disposed on the same surface so as to surround one end of the line conductor, a slot formed in the ground conductor layer so as to be substantially orthogonal to the one end of the line conductor and coupled to the line conductor, a shield conductor part disposed on a side of or in an inside of the dielectric layer so as to surround the one end of the line conductor and the slot, and a waveguide disposed at the lower side of the dielectric layer so that an opening is made opposite to the one end of the line conductor and the slot, and electrically connected to the shield conductor part.